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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/766,900	01/30/2004	Achim Melching	87333.3281	5703
7590 02/06/2006			EXAMINER	
BAKER & HOSTETLER LLP			DOERRLER, WILLIAM CHARLES	
Washington Square, Suite 1100 1050 Connecticut Avenue, N.W. Washington, DC 20036			ART UNIT	PAPER NUMBER
			3744	

DATE MAILED: 02/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Community	10/766,900	MELCHING ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAN INCO DATE of the	William C. Doerrler	3744				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 23 De	ecember 2005.					
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 19-36 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 19-36 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 30 January 2004 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	a) \square accepted or b) \square objected drawing(s) be held in abeyance. See on is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 19-24,26,28,29,31-33 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cook in view of McClurkin '187.

Cook discloses applicants' basic inventive concept, a cabinet for heat treating an object with means to move the object and a door, substantially as claimed with the exception of a gas supply by the opening to produce a gas curtain having multiple rows

of openings including one that directs gas outwardly to prevent the transfer of heat and gas between the chamber an the external atmosphere. McClurkin '401 shows this feature to be old in the heat transfer chamber art. It would have been obvious to one of ordinary skill in the art at the time of applicants' invention from the teaching of McClurkin to modify the heat treatment device of Cook by using rows of gas outlets to prevent the mingling of internal and external gas when the door is opened. Switch 41 of McClurkin shows the switch for automatically controlling the gas flow device. McClurkin also shows openings on opposite sides of the opening in accordance with claim 4. The treatment of slides is seen as intended use, which the device of Cook is clearly capable of performing. In regard to a tight seal on the door, Official Notice is taken that cabinets which thermally treat materials (ovens, refrigerators, freezers) regularly have doors which seal to permit the escape of tempered air to improve the efficiency of the cabinet.

Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cook in view of McClurkin '187 as applied to claims 19-24,26,28,29,31-33 and 36 above, and further in view of Moore et al.

Cook, as modified, discloses applicants' basic inventive concept, a climatic cabinet with means to move objects therein with gas curtain means to prevent gas ingress to the cabinet, substantially as claimed with the exception of gas collection chambers connected to the gas supply conduit. Moore et al shows gas collection chambers 44 which collect air and pass the air through the heat exchanger before passing it to a discharge chamber to pass it across the opening of the chamber. It would have been obvious to one of ordinary skill in the art at the time of applicants' invention from the

teaching of Moore et al to modify the treatment cabinet of Cook by using gas collection chambers to permit the reuse of treated air use for the gas curtain to reduce the need for continually supplying new gas for the curtain.

Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cook in view of McClurkin '187 as applied to claims 19-24,26,28,29,31-33 and 36 above, and further in view of Crawford.

Cook, as modified, discloses applicants' basic inventive concept, a climatic cabinet with means to move objects therein with gas curtain means to prevent gas ingress to the cabinet, substantially as claimed with the exception of gas exhaust openings integrated into the door. Crawford shows gas exhaust openings 11 integrated into the door to be old in the art. It would have been obvious to one of ordinary skill in the art at the time of applicants' invention from the teaching of Crawford to modify the treatment cabinet of Cook by using gas exhaust openings integrated with the door to ensure that the gas is expelled in the area adjacent to the door.

Claims 27 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cook in view of McClurkin '187 as applied to claims 19-24,26,28,29,31-33 and 36 above, and further in view of Mori et al.

Cook, as modified, discloses applicants' basic inventive concept, a climatic cabinet with means to move objects therein with gas curtain means to prevent gas ingress to the cabinet, substantially as claimed with the exception of nitrogen as the gas and automatic doors. Mori et al shows in figure 5 a transfer chamber from a nitrogen chamber with automatic doors to permit transfer of objects between chambers. It would

have been obvious to one of ordinary skill in the art at the time of applicants' invention from the teaching of Mori et al to modify the treatment cabinet of Cook by using automatic doors to permit for easy transfer between chambers and using nitrogen for the gas to provide an inert atmosphere for the treatment.

Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cook in view of McClurkin '187 as applied to claims 19-24,26,28,29,31-33 and 36 above, and further in view of Carlson et al.

Cook, as modified, discloses applicants' basic inventive concept, a climatic cabinet with means to move objects therein with gas curtain means to prevent gas ingress to the cabinet, substantially as claimed with the exception of controls for the gas curtain which control the curtain in relation to the temperature difference between the inside and outside of the chamber. Carlson et al shows this feature to be old in the air curtain art (se the abstract and claim 15). It would have been obvious to one of ordinary skill in the art at the time of applicants' invention from the teaching of Carlson et al to modify the treatment cabinet of Cook by using the temperature difference between the inside and outside of the chamber to control the gas curtain to conserve energy while still blocking the ingress of different temperature air into the chamber.

Response to Arguments

Applicant's arguments filed 12-23-2005 have been fully considered but they are not persuasive. Applicant states that the cited references do not show a cabinet "configured to hold specimen slides", "a device to load and unload the interior" of the

cabinet, a loading opening with dimensions substantially conforming to the specimen slides," or "a door adapted to tightly seal" the loading opening. It is noted that "configured to hold specimen slides" and "to load and unload the interior" are functional statements. The device of cook is clearly capable of performing the function of holding specimen slides and the rotating trays of Cook clearly assist in the loading and unloading of the device since the user does not have to reach to back of the cabinet. Therefore, these limitations are seen as met. Applicants have not clearly defined the size of the slides, so the door of Cook, which is shown to have a low height, is seen as substantially conforming to the items entering the cabinet. In regard to a tight seal on the door. Official Notice is taken that cabinets which thermally treat materials (ovens, refrigerators, freezers) regularly have doors which seal to permit the escape of tempered air to improve the efficiency of the cabinet. It is agreed that the cited references do not show a mechanized conveyor to automatically load and unload the cabinet such as applicant has disclosed. However, applicant has not adequately claimed such structure to overcome the cited references which do show a conveyor for holding the objects which will turn so that the user does not have to reach to the rear of the cabinet, thus making loading and unloading easier, as well as an automatic means to pivot the holder closest the exit to assist in unloading. If applicant were to claim the automatic loading and unloading conveyor clearly, the rejection relying on Cook would most likely be overcome. The reasons to combine the references is that McClurkin teaches that volumes of treated air (heated or cooled) with access openings can be run efficiently by using an air curtain to reduce the loss of tempered air. Applicant's

invention is concerned with maintaining a conditioned atmosphere in a cabinet. Cook shows a cabinet for producing such a conditioned atmosphere (with means to preserve the atmosphere such as the sealed door) and McClurkin shows an alternate device to preserve the conditioned air in a volume.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Doerrler whose telephone number is (571) 272-4807. The examiner can normally be reached on Monday-Friday 6:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William C Doerrler Primary Examiner Art Unit 3744

WCD